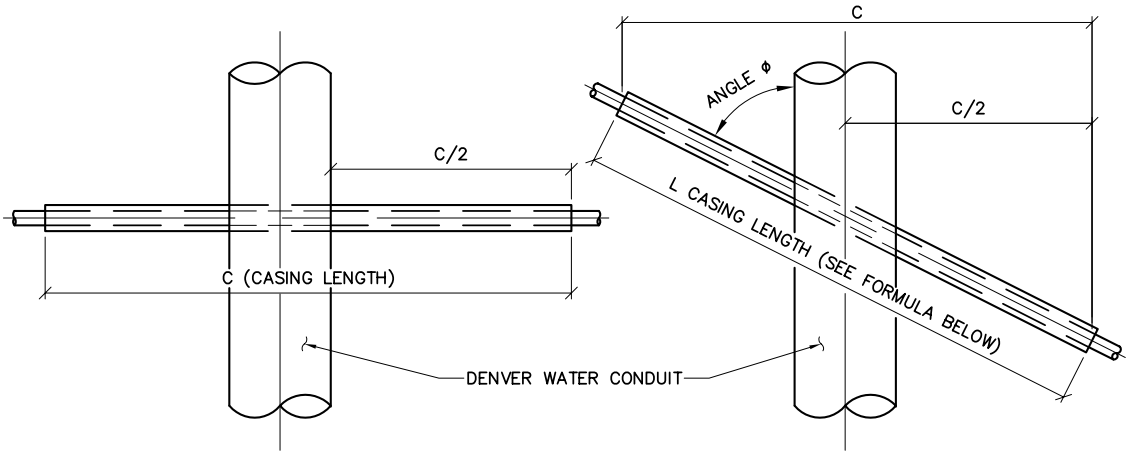
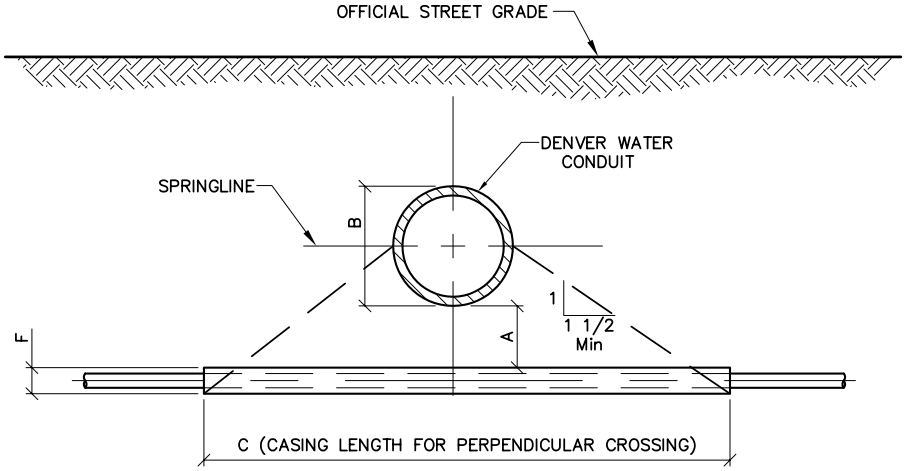


PLAN
FOR PERPENDICULAR CROSSING

PLAN
FOR ANGLE CROSSING



PROFILE

FORMULA FOR FINDING C:

$$C = B+(2)(1.5)\left[\frac{B}{2}+A+F\right]$$

- PERPENDICULAR CROSSING CASING LENGTH
- O.D. DENVER WATER CONDUIT
- CONSTANT
- RATIO OF Min SLOPE
- CASING O.D.
- VERTICAL DISTANCE BETWEEN CASING AND DENVER WATER CONDUIT.
- 1/2 O.D. DENVER WATER CONDUIT

FORMULA FOR FINDING L:

$$L=\frac{C}{SIN\ \phi}$$

NOTES:

1. FINAL APPROVAL OF BORING AND CASING METHOD AND MATERIALS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION.
2. SOIL AT ENDS OF CASING SHALL BE STABLE AT ALL TIMES.
3. CATHODIC PROTECTION SHALL BE PROVIDED FOR STEEL CASING AS REQUIRED BY THE ENGINEER.
4. CASING PIPE SHALL BE ONE PIECE, STRAIGHT, ROUND AND OF NEW MATERIAL.

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BORED CROSSING BENEATH CONDUITS

Scale: NONE	Date: JULY 1995	
Drawn: C.B.B.	Tr:	Ck:
Approved:	Dr. 127	No. 35